

State of California
California Energy Commission
Minutes of the August 10, 2016, Energy Commission Business Meeting

The meeting was called to order by Chair Weisenmiller. The Pledge of Allegiance was led by Chair Weisenmiller.

Present:

Robert B. Weisenmiller, Chair

J. Andrew McAllister, Commissioner

David Hochschild, Commissioner

Janea A. Scott, Commissioner

The Chair announced that Item 2 will be held and Item 5 will be moved up. The Commission honored students from Stanford Energy Internships with a resolution for their contributions to the California Energy Commission.

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. BLYTHE SOLAR POWER PROJECT (09-AFC-06C). Possible approval of an order granting the petition to transfer ownership for the Blythe Solar Power Project (BSPP) (Photovoltaic), Unit 1, from NextEra Blythe Solar Energy Center, LLC to Blythe Solar 110, LLC and Unit 2 from NextEra Blythe Solar Energy Center, LLC to Blythe Solar II, LLC. NextEra Blythe Solar Energy Center, LLC will continue to own the shared facilities that are common to all four units of the BSPP and Units 3 and 4. Contact: Mary Dyas.
 - b. COUNTY OF MODOC. Proposed resolution approving Amendment 2 to grant Agreement GEO-14-003 with the County of Modoc for a budget reallocation due to a change in the distributed energy resource unit. (GRDA funding) Contact: Cheryl Closson.
 - c. GEYSERS POWER COMPANY, LLC. Proposed resolution approving Amendment 1 to grant Agreement EPC-14-002 with Geysers Power Company, LLC to reallocate \$928,050 to address administrative changes to equipment, material and miscellaneous costs, and extend the agreement by 12 months due to the September 2015 Valley Fire. The total Energy Commission funding amount remains unchanged; however, match funding will increase by \$1.36 million. (EPIC funding) Contact: Hassan Mohammed.

Commissioner McAllister disclosed that his wife is a professor at UC Davis King Hall and that UC Davis is a subcontractor on Item 1b and the prime contractor on Item 9a. Commissioner Scott moved and Commissioner McAllister seconded approval of Item 1. The vote was 4-0. The Chair announced Commissioner Douglas is absent.

2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (5 minutes)

Item 2 was held. No action taken.

3. RUSSELL CITY ENERGY CENTER (01-AFC-07C). Possible approval of an order granting the petition to amend to allow for the installation of a Recycled Water Demineralization System at the Russell City Energy Center. Contact: Eric Veerkamp. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 3. The vote was 4-0.

4. THE CSU, CHICO RESEARCH FOUNDATION. Proposed resolution approving Agreement 700-16-002 with The CSU, Chico Research Foundation for a \$75,000 contract to produce a 26-minute documentary highlighting the rich prehistory of the Ford Dry Lake area. The work authorized by this contract ensues from the Genesis Discovery Mitigation Plan and, upon completion, will fulfill a part of the required mitigations agreed to in consultation with project-affiliated tribes. (Special Deposit Fund GSEP Mitigation funding) Contact: Thomas Gates. (Staff presentation: 5 minutes)

Commissioner Scott moved and Commissioner McAllister seconded approval of Item 4. The vote was 4-0.

5. 2016 SUMMER INSTITUTE FOR ENERGY LAW AND POLICY PRESENTATION (Information Item). Student presentation on the Summer Institute for Energy Law and Policy highlighting what they learned during this two-week program. They will also highlight a few findings and recommendations from their final project presentation. Contact: Alana Mathews. (Student presentation: 10 minutes)

Students from the 2016 Summer Institute for Energy, Law and Policy presented Information Item 5.

6. CALIFORNIA SUSTAINABLE FREIGHT ACTION PLAN (Information Item). Staff presentation on the California Sustainable Freight Action Plan highlighting the interagency effort to establish clear strategies to meet State sustainability targets and move California's freight system toward a more efficient and competitive future. Contact: Andre Freeman. (Staff presentation: 10 minutes)

Staff presented Information Item 6.

7. DOE-NATIONAL RENEWABLE ENERGY LABORATORY. Proposed resolution approving Amendment 1 to contract Agreement 600-15-001 with the Department of Energy's National Renewable Energy Laboratory to add Task 8, Real-Time Data Collection for Alternative Fueling Stations and augment the budget by \$299,752 for the added task. (ARFVTP funding) Contact: Adeel Ahmad. (Staff presentation: 5 minutes)

Commissioner Scott moved and Commissioner Hochschild seconded approval of Item 7. The vote was 4-0.

8. CITY OF SANTA MONICA. Proposed resolution approving Agreement EPC-16-008 with the City of Santa Monica for a \$1,487,609 grant to plan and design a microgrid in Santa Monica that will incorporate renewable energy, energy storage, and electric vehicle charging. This project will develop an Advanced Energy Community based around a multiuser microgrid through partnerships with private developers and city owned properties and create a model that will lay a foundation for policy and financial frameworks to enable public and private investment in future district scale systems. (EPIC funding) Contact: Rachel Salazar. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 8. The vote was 4-0.

9. ADVANCING WATER AND ENERGY EFFICIENT STRATEGIES AND TECHNOLOGIES IN CALIFORNIA, GFO-15-317. This solicitation sought proposals to: (1) conduct research to identify, test, evaluate and demonstrate innovative technologies and strategies that will result in both water and energy savings and will overcome barriers to large scale deployment; (2) develop innovative and replicable approaches for accelerating the deployment of drought resilience strategies that minimize need for new water related energy infrastructure. (EPIC funding) Contact: Kevin Mori. (Staff presentation: 10 minutes)
- a. UNIVERSITY OF CALIFORNIA, DAVIS. Proposed resolution approving Agreement EPC-16-010 with the Regents of the University of California, on behalf of the Davis campus for a \$1,000,000 grant to research the viability of two dairy cattle cooling technologies to reduce heat exposure and cool cattle while reducing overall water and energy consumption. Research will compare two methods, conduction cooling and targeted convection cooling, at the UC Davis Dairy. The cooling approach that shows the most promise from the preliminary testing will be pilot tested at a dairy in Tulare, California.
 - b. PORIFERA, INC. Proposed resolution approving Agreement EPC-16-009 with Porifera, Inc. for a \$999,795 grant to fund the applied research and testing of a low-energy, dual barrier system to treat water to potable water standards for reuse. The test site is the Hayward Water Pollution Control Facility.
 - c. ALTEX TECHNOLOGIES CORPORATION. Proposed resolution approving Agreement EPC-16-012 with Altex Technologies Corporation for a \$999,994 grant to develop, test at pilot scale, and evaluate performance of a hybrid wet/dry heat exchanger. The hybrid heat exchanger will be retrofitted and tested in an existing chiller system and data will be collected on water and energy savings over standard chiller system operation.
 - d. LAWRENCE LIVERMORE NATIONAL SECURITY, LLC. Proposed resolution approving Agreement EPC-16-014 with Lawrence Livermore National Security, LLC for a \$999,040 grant to develop, test, and demonstrate a novel technology that can significantly reduce desalination costs and energy used to treat wastewater.
 - e. KENNEDY/JENKS CONSULTANTS, INC. Proposed resolution approving Agreement EPC-16-011 with Kennedy/Jenks Consultants, Inc. for a \$882,430 grant to pilot test the efficiency of a novel membrane technology that can minimize fouling of membrane surfaces in wastewater treatment operations, thus increasing water recovery and lowering energy demand. The proposed project will test the membrane technology at a regional water treatment facility in the Central Valley and will collect comprehensive data to demonstrate the economic viability and effectiveness of implementing this energy-saving technology.

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 9. The vote was 4-0.

10. UNIVERSITY OF CALIFORNIA, BERKELEY. Proposed resolution approving Agreement EPC-16-013 with the Regents of the University of California, on behalf of the Berkeley campus for a \$1,888,683 grant to develop optimal system configuration for smart comfort controlled ceiling fans integrated with learning thermostats, and evaluate their energy performance and occupant acceptance in low income multi-family residential and small commercial buildings located in disadvantaged communities in California. This

research and development will advance the solution's technology readiness level and support market adoption acceleration. (EPIC funding) Contact: Adel Suleiman. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 10. The vote was 4-0.

11. LOS ANGELES CLEANTECH INCUBATOR. Proposed resolution approving Agreement EPC-16-015 with Los Angeles Cleantech Incubator for a \$4,999,247 grant to establish a Los Angeles Regional Energy Innovation Cluster to act as a local hub of clean energy entrepreneurship, and give promising clean energy entrepreneurs direct access to the region's top technical, business, and commercialization clean energy support services. This project will assess and address the region's energy needs, target the most impactful clean energy technologies and facilitate the downstream market adoption of new clean energy technologies. (EPIC funding) Contact: Diana Gonzalez. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 11. The vote was 4-0.

12. DISCUSSION OF ENERGY COMMISSION PROGRESS RE IMPLEMENTATION OF THE CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SENATE BILL 350) (Information Item). Staff presentation and Commissioner discussion regarding Energy Commission progress on and planned actions for implementation of Senate Bill 350 requirements, including but not limited to administration of the California Renewables Portfolio program, development of local publicly owned electric utility integrated resource plans, revision of Commission data collection regulations to improve demand forecasting, identification of progress in meeting the goals of 50% renewables procurement and doubling of energy efficiency, implementation of widespread transportation electrification, and preparation and publication of the study required by Public Resources Code section 25327 regarding barriers faced by low-income and disadvantaged communities to investing in energy efficiency and weatherization, installing solar photovoltaic and other renewable generating resources, and contracting opportunities for small businesses. Contact: Rob Oglesby. (Staff presentation: 10 minutes)
 - a. BARRIERS STUDY UPDATE. Senate Bill 350 identifies that there is an insufficient understanding of the barriers for low-income and disadvantaged communities to access energy efficiency investments, solar photovoltaic energy generation, weatherization, other forms of renewable generation, and contracting opportunities. For this reason, Energy Commission staff are engaged in efforts to identify barriers and complete a study to be published by January 1, 2017. Contact: Rob Oglesby. (Staff Presentation: 10 minutes)
 - b. INTEGRATED RESOURCE PLAN UPDATE. Staff presentation on the integrated resource plans that will describe how public utilities propose to align their demand and supply resource choices with the energy and policy goals outlined in Senate Bill 350. Staff will summarize the plan requirements, comments from the April 18, 2016 workshop, and current activities. Contact: Sylvia Bender. (Staff presentation: 10 minutes)

Staff presented Information Item 12.

13. **Minutes:** Possible approval of the July 13, 2016 Business Meeting minutes.

Commissioner Scott moved and Commissioner McAllister seconded approval of Item 13. The vote was 4-0.

14. **Lead Commissioner or Presiding Member Reports.** The Commissioners reported on their recent activities.
15. **Chief Counsel's Report:** None.
16. **Executive Director's Report.** The Executive Director gave a report.
17. **Public Adviser's Report.** None.
18. **Public Comment:** Larry McLaughlin gave a public comment.

Appearances:

(*by telephone)

*Chris Schmidt, Cal Trans

*Andrew Hudgins, National Renewable Energy Laboratory

Dian Grueneich, Precourt Energy Efficiency Center, Stanford University (PEEC)

Felisa Santos, Florin High School

Jacky Navarro, Florin High School

Karen Navila, Florin High School

Anthony Nammavong, Florin High School

Ramsses Rodriguez, Florin High School

Natasha, Florin High School

Jessica Rain Love, Florin High School

Laura Attken, Florin High School

Eric Lam, Florin High School

Leo Padilla, Florin High School

Yadira Garcia, Florin High School

Greggory Wheatland, Ellison Schneider & Harris

Heather Arias, CA Air Resources Board

Larry McLaughlin, Advanced Transportation & Renewable Energy

Tanya M. DeRivi, Southern California Public Power Authority

Bill Magavern, Coalition for Clean Air

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Appearances: (Cont.)

Katherine C. Piper, Calpine Corporation

Frank Ramirez, Governor's Office of Business and Economic Development

There being no further business, the meeting was adjourned.

Respectfully submitted,

Cody Goldthrite

CODY GOLDTHRITE
Secretariat

